

## **Lumiprobe Corporation**

201 International Circle, Suite 135 Hunt Valley, Maryland 21030

USA

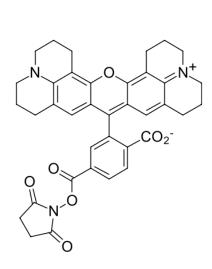
Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

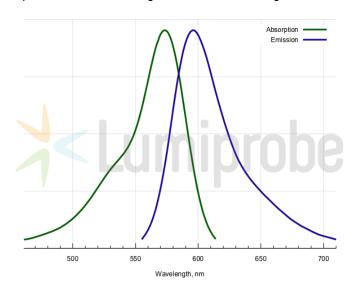
## **ROX NHS ester, 6-isomer**

http://www.lumiprobe.com/p/6-rox-nhs-ester

ROX (Rhodamine X, R101) is a highly fluorescent, and photostable rhodamine dye for various applications. ROX labeled oligonucleotide probes are often used in qPCR, and qPCR instruments have ROX channel.

This is reactive dye for the labeling of amino-groups in peptides, proteins, and amino-oligonucleotides. Pure single isomer.





Absorption and emission spectra of ROX dye

Absorption and emission spectra of ROX dye

## **General properties**

Appearance: dark crimson powder

Mass spec M+ increment: 516.2 Molecular weight: 631.67

CAS number: 117491-83-5; 1890922-83-4; 216699-36-4

Molecular formula:  $C_{37}H_{33}N_3O_7$ 

Solubility: good in polar organic solvents (DMF, DMSO), low in water

Quality control: NMR <sup>1</sup>H, HPLC-MS (80+%, balance mostly free carboxylic acid)

Storage conditions: Storage: 12 months after receival at -20°C in the dark. Transportation: at room

temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

## **Spectral properties**

Excitation/absorption maximum, nm: 570  $\epsilon$ , L·mol<sup>-1</sup>·cm<sup>-1</sup>: 88000 Emission maximum, nm: 591 Fluorescence quantum yield: 1.0  $CF_{260}$ : 0.62  $CF_{280}$ : 0.49